Summary Report

Former Above-Ground Storage Tank (AST) Site 753
Marine Corps Air Station, El Toro, California

3 December 1999

Prepared by:

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ADDENDUM TO SUMMARY REPORT FORMER ABOVE-GROUND STORAGE TANK (AST) SITE 753

DATED 15 DECEMBER 2000

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Section 1 Introduction

The purpose of this Summary Report is to present information pertaining to the Former Above-Ground Storage Tank (AST) Site 753 at the Marine Corps Air Station (MCAS), El Toro. The tank was identified as a 200-gallon pesticide storage tank in the Base Realignment and Closure Cleanup Plan (BCP). The tank was located at Building 753, adjacent to N Place near Building 369, as shown on Figure 1. The tank was transported to a waste disposal facility in November 1999.

The Marine Corps Air Station, El Toro, also known as the Station, comprises approximately 4,700 acres and is located in eastern Orange County approximately 45 miles southeast of Los Angeles, California. The Former AST Site 753 is located in the southwestern section of the Station at Building 753 which is located within the boundary of Installation Restoration Program (IRP) Site 24 – the Volatile Organic Compound (VOC) Source Area. Remediation of the vadose zone at IRP Site 24 is in progress as of November 1999.

The Station was closed on 2 July 1999 in accordance with the Base Realignment and Closure Act of 1993 (BRAC III). Former AST Site 753 and Building 753 are located within a parcel tentatively identified as a future cargo area according to *The Airport and Open Space Plan, Year 2020, Concept C* (County of Orange, August 1998).

Based upon the visual evidence from the inspections of the Former AST Site 753, the results of field sampling activities at nearby locations of concern, and the removal of the tank, we are recommending *no further action status* for this site and we propose to document *no further action status* in the next BRAC Cleanup Plan update.

Section 2 Field Inspections and Historical Records

2.1 Field Inspections

Former AST Site 753 Vicinity

The vicinity of Former AST Site 753 was inspected by Navy representatives in October 1999. AST 753 was located on a platform adjacent to Building 753, and secondary containment (a drip pan) was provided. No stains or discolored areas were observed on the platform where the tank was formerly operated, and no stains or discolored areas were observed on the pavement adjacent to the platform. The paved areas adjacent to the tank were in good condition, and no significant cracks in the pavement were observed. The tank was transported to a waste disposal facility on 24 November 1999, and a copy of the manifest is presented in the Appendix.

Photographs of the vicinity of Former AST Site 753 and a record of the visual inspection of the tank site are presented in the Appendix.

2.2 Environmental Program Records

Records of previously completed environmental restoration program investigations were acquired and reviewed. Selected nearby sites are shown on Figure 1. Former AST Site 753 is located within the investigation boundary of IRP Site 24 and in close proximity to IRP Site 11 and IRP Site 22. Extracts pertaining to selected IRP Sites are included in the Appendix.

Table 1. Sampling Activities or Investigations at or near Former AST Site 753.

Location of Concern Identification Number	Status	NFA or other Decision Document(s)	Comments
Former AST Site 753 Vicinity			
IRP Site 24 VOC Source Area Vadose Zone	Remediation in progress as of December 1999	Interim Record of Decision of 1997	Soil, soil gas, and ground water samples were collected at IRP Site 24 during the remedial investigation and during vadose zone remediation activities. Several sample locations are within 200 feet of Former AST Site 753.
IRP Site 11 Transformer Storage Area	Preparing for remediation	Record of Decision of 1999	Soil samples were collected during the remedial investigation. IRP Site 11 is located less than 100 feet northwest of Former AST Site 753.
IRP Site 22 Tactical Air Fuel Dispensing System	NFA	No Action Record of Decision of 1997	Soil, soil gas, and ground water samples were collected during the remedial investigation. IRP Site 22 is located less than 100 feet northeast of Former AST Site 753.
APHO 7 (wet soil or stains)	NFA	California Department of Toxic Substances Control letter dated 20 August 1999	Investigation included a review of historical records and previously collected field data from nearby IRP or RFA sites. APHO 7 is located within 100 feet of Former AST Site 753.

BRAC Cleanup Plan (BCP) Information

The BCP (Tables 3-1a, 3-1b, and 3-8) describe AST 753 and extracts from the BCP are presented in the Appendix.

Final Environmental Baseline Survey (EBS) Information

The EBS identifies a 200-gallon pesticide storage tank at Building 753, and extracts from the EBS are presented in the Appendix.

Storm Water Pollution Prevention Plan

The Station's Storm Water Pollution Prevention Plan (SWPPP) was reviewed and extracts from the SWPPP for the vicinity of Former AST Site 753 are presented in the Appendix of this report.

The SWPPP indicates that Building 753 personnel have been trained in spill cleanup procedures, and a spill cleanup kit was present during the SWPPP inspection.

Surface water from the vicinity of Former AST Site 753 eventually discharges to Bee Canyon Wash which is located northwest of the site. Bee Canyon Wash and other surface drainage channels were investigated during the Remedial Investigation of Installation Restoration Program Site 25 – the Major Drainages. A Comprehensive Environmental Response, Compensation, and Liability Act Record of Decision identifying no action for IRP Site 25 was signed in 1997.

Surface water quality in Bee Canyon Wash is monitored under the Station's National Pollutant Discharge Elimination System (NPDES) Permit for Storm Water. The permit was issued by the California Regional Water Quality Control Board, Santa Ana Region.

2.3 Historical Property Records

Property records including the Station's plant account data base were acquired and reviewed, and information pertaining to structures located near the Former AST Site 753 is summarized in Table 2.

Table 2. MCAS El Toro Property Records.

Building Identification Number	Approximate year of acquisition or construction	Type of Use	Comments
Former AST Site 753 Vicinity		•	
Building 753	1984	Pest Control Facility	Improved in 1990
Building 369	1954	SERVMART - Warehouse	

2.4 Ground Water Conditions

Ground water conditions have been investigated in the vicinity of Former AST Site 753 during the Remedial Investigations of IRP Site 24 – the VOC Source Area- and IRP Site 22 – the Tactical Air Fuel Dispensing System. The nearest wells, 24NEW5 and 22-DBMW47, are located northeast of the site. Ground water is located approximately 120 feet below ground surface based upon measurements from these wells, and the wells are located within the trichloroethene (TCE) ground water plume. Pesticides were not detected at or above laboratory reporting limits in water samples collected from Well 22_DBMW47. The nearest downgradient well, 09_DGMW75, is located several hundred feet northwest of Former AST Site 753. Pesticides were not detected at or above laboratory reporting limits in water samples collected during from this well. Selected ground water information is presented in the Appendix, and a conceptual site model is shown on Figure 2.

Section 3 Findings and Recommendations

The following findings are based upon information collected during the record search activities and from observations during the visual inspection of the Former AST Site 753 vicinity:

- A 200-gallon above-ground storage tank was used at the Pest Control Facility at Building 753 until approximately mid-1999.
- The ground water beneath Former AST Site 753 has been impacted by the release
 of volatile organic compounds from IRP Site 24, and ground water remediation will
 be managed under the Installation Restoration Program. Pesticides were not
 detected at or above laboratory reporting limits in water samples collected from
 nearby wells.
- The vicinity of the Former AST Site 753 was visually inspected by the Navy in October 1999, and no evidence of above-ground tanks or stained or discolored areas of pavement was observed. Additionally, the pavement appeared to be in good condition and no significant cracks in the pavement were observed at the time of the recent inspection.

Based upon the results of the evaluation of historical records, the results of the visual inspection, and the absence of evidence of releases of hazardous materials at the vicinity of Former AST Site 753, it is recommended that *no further action status* be designated for Former AST Site 753 and that *no further action status* be documented in the next BCP Update.

Section 4 References and/or Sources of Information

Bechtel National, Incorporated. 1995. Final Work Plan, Phase II Remedial Investigation/Feasibility Study, MCAS El Toro, California. July. [Navy Contract N68711-92-D-4670, Contract Task Order 59]

California Regional Water Quality Control Board, Santa Ana Region. 1998. Statement of Basis, Renewal of Waste Discharge Requirements for Marine Corps Air Station, El Toro, Order Number 98-42 (NPDES Number CAS 618006). March.

CDM Federal Programs Corporation. 1998. Final Groundwater Monitoring Report, October 1997 Sampling Round, Groundwater Monitoring Program for Marine Corps Air Station, El Toro. [Navy Contract N68711-96-D-2029, Delivery Order 5]

County of Orange. 1998. The Airport and Open Space Plan, Year 2020, Concept C. August. [prepared by the MCAS El Toro Local Redevelopment Authority]

Integrated Environmental Management (IEM). 1997. Storm Water Pollution Prevention Plan (SWPPP) for Marine Corps Air Station, El Toro, El Toro, California. July. [Contract No. N68711-96-D-2059, Delivery Order Number 0002] {Annotation: The IEM planning document included the acquisition and review of historical and current plans of facilities and utilities. Extracts from the IEM report are presented in the Appendix.}

Jacobs Engineering Group (JEG). 1993. Installation Restoration Program, Final Resource Conservation and Recovery Act Facility Assessment Report for Marine Corps Air Station, El Toro, California. [Navy Contract N68711-89-D-9296, Contract Task Order 193]

Jacobs Engineering Group (JEG). 1995. Marine Corps Air Station, El Toro, El Toro, California, Final Environmental Baseline Survey Report. April. [Navy Contract N68711-89-D-9296, Contract Task Order 284]

OHM Remediation Services Corporation. 1999. Technical Information Package on Above-ground Storage Tank 753. [Navy Contract N68711-93-D-1459]

Southwest Division, Naval Facilities Engineering Command. 1999. Summary Report, Aerial Photograph Anomaly APHO 7, Marine Corps Air Station, El Toro, California.

Southwest Division, Naval Facilities Engineering Command. 1999. Technical Memorandum, Aerial Photograph Anomalies, Marine Corps Air Station, El Toro, California. April.

United States Marine Corps Air Station, El Toro. 1999. Base Realignment and Closure (BRAC) Cleanup Plan.

U.S. Marine Corps Air Station, El Toro. 1997. Draft Final Record of Decision, Operable Units 2A and 3A, No Action Sites, Marine Corps Air Station, El Toro, California. September.

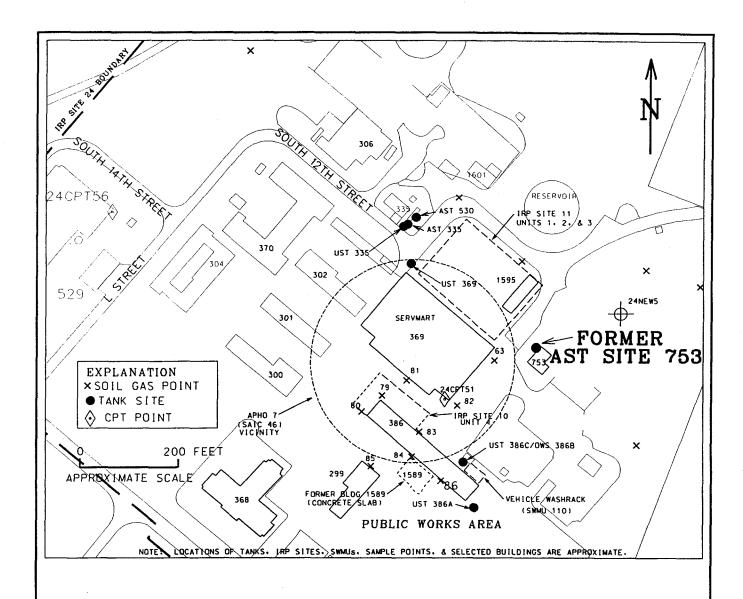
U.S. Marine Corps Air Station, El Toro. 1997. Draft Final Interim Record of Decision, Operable Units 2A, Site 24, Vadose Zone, Marine Corps Air Station, El Toro, California. September.

United States Marine Corps Air Station, El Toro. 1997. Building Guide.

United States Marine Corps Air Station, El Toro, Public Works Department. 1954. Master Plot Plan, Proposed Additional Aircraft Parking Facilities in Tactical Area III and Proposed Relocation of Existing Stables. [Alternate drawing identification number Public Works drawing PS-1236]

United States Marine Corps Air Station, El Toro. Circa 1946-1999. Station Property Records.

Figures



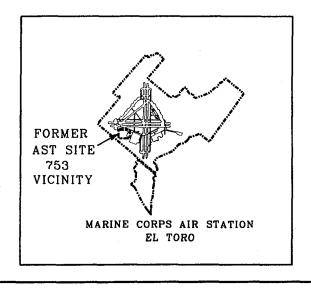


Figure 1.

FORMER ABOVE-GROUND STORAGE TANK (AST) SITE 753

FORMER AST SITE 753 VICINITY MAP

MARINE CORPS AIR STATION, EL TORO

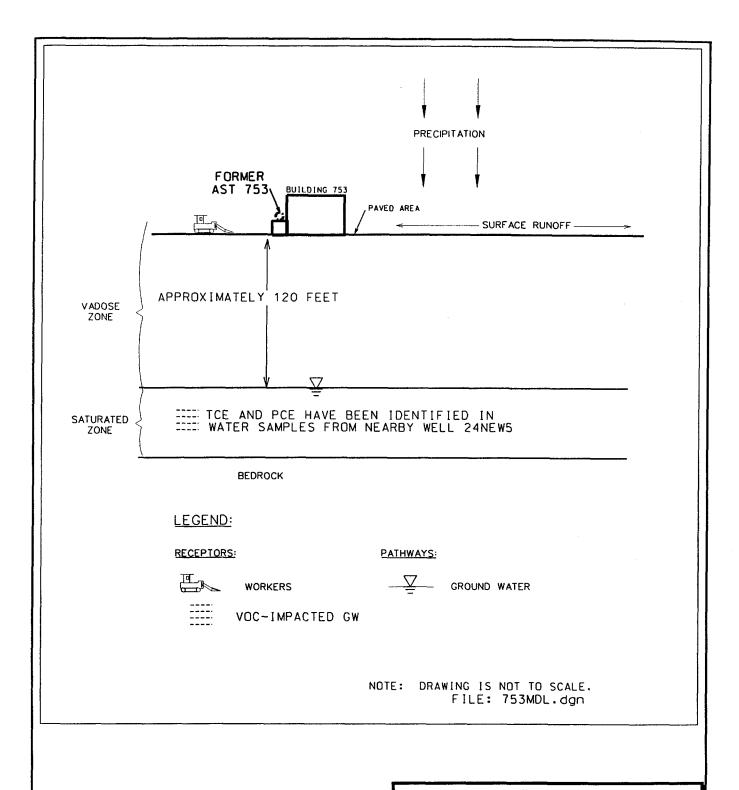


Figure 2.

FORMER ABOVE-GROUND STORAGE TANK (AST) SITE 753

CONCEPTUAL SITE MODEL

MARINE CORPS AIR STATION, EL TORO

Appendix

Site Photographs and Other Documentation

Site Photographs

Check List Form

Disposal Documentation for AST 753

Exhibit

1997 Building Guide Extracts

Extracts from Base Realignment and Closure Cleanup Plan (BCP)

Extracts from EBS

Extracts from SWPPP

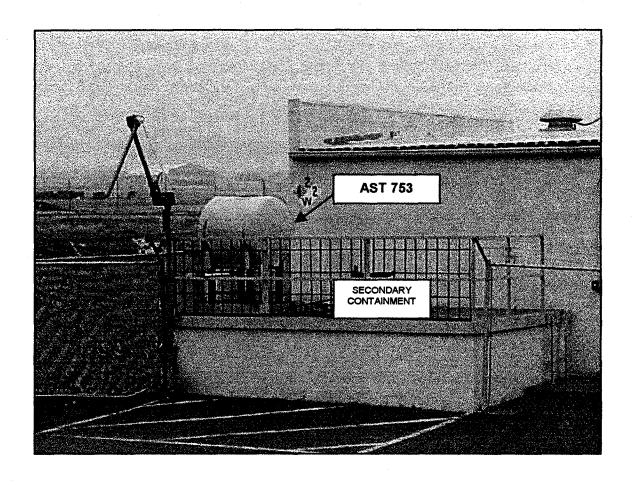
No Further Action Documents (Closure Letters and Record of Decision Extracts) for Nearby Environmental Locations of Concern and Selected Information from the Installation Restoration Program Documents

SITE PHOTOGRAPHS

SUMMARY REPORT FORMER ABOVE-GROUND STORAGE TANK (AST) SITE 753

Photograph 1. ABOVE-GROUND STORAGE TANK (AST) 753 VICINITY Marine Corps Air Station, El Toro

Date of Photograph: June 1999



CHECK LIST FORM

SUMMARY REPORT FORMER ABOVE-GROUND STORAGE TANK (AST) SITE 753

CHECK LIST

Former Above-Ground Storage Tank (AST) Site 753

Recommendation: No Further Action Status

Tank Description (from source document(s) BRAC Cleanup Plan of 1999 with proposed correction for tank capacity):

AST 753: A 300-gallon (yellow) tank formerly located on the northwest side of Building 753 (Pest Control Building) and used for storage of pesticides.

Visual Inspection Date (s): 30 October 1999 and 1 December 1999.

Participant(s) (with affiliation(s)) in inspection(s): Lynn Marie Hornecker (US Navy)

Current Site Conditions: AST 753 was located on a platform that adjoined the northwest side of Building 753. The AST was installed in a metal frame, and a metal drip pan was located immediately below the tank. The tank and drip pan were removed previously, and no other tanks were observed during the inspection. The outline of the metal drip pan was visible on the platform during the inspections. Asphalt-cement pavement is located along the northwest side of Building 753, adjacent to the tank platform, and the pavement appeared to be in good condition with few cracks. The pavement on the adjacent access road has deteriorated and has many surface cracks.

No stains or discolored areas were visible on the platform where the AST was located, and no stains or discolored areas were visible on the pavement immediately adjacent to the platform.

Is there visual evidence of the former location of the AST? Yes.

Is there evidence of past releases? No.

Are there indications of potential or current releases? No.

Description of photograph(s): Photographs show the vicinity of Former AST Site 753. [One photograph was taken of the tank prior to tank removal in June 1999 and an inspection was made at that time. The more recent inspections included a photograph of the area immediately beneath the former AST 753.]

Date of preparation of check list: 1 December 1999

DISPOSAL DOCUMENTATION FOR AST 753

SUMMARY REPORT FORMER ABOVE-GROUND STORAGE TANK (AST) SITE 753

DEC. 1. 1899 10:49AM



Chemical Waste Management, Inc. GENERATOR'S WASTE PROFILE SHEET

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NU. 1940

(Please carefully read the instructions before completing this form. Please print in ink or type)

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If the waste profile is approved, Chemical Waste Management, Inc. has the appropriate permits and will accept the waste pursuant to our agreement CWM Form 6000-DI replaces the following forms: CWM-51, CWM 6000, CWM 50-A-2, CWM 50-B. CWM 6000C AND CWM Form 6000-D.

State of Colifornia—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print of type. Form designed for use on elite (12-pitch) type-writer.

See Instructions on back of page 6.

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Department of Toxic Substances Control Secremento, Culifornia

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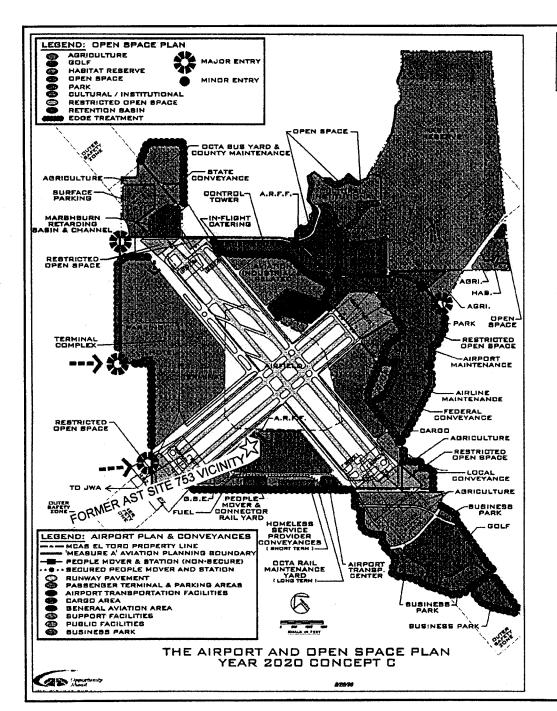
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Inia waste is subject to a notional capacity variance, or a case-by-case extension. Enter the effective date of prohibition in tolute 7 shows. In Haspidous Debrist Minia hazardous tichris is subject to the alternative treatment standards of 40 CFR Part 268.45, not restricted waste case as Land Disposed Without further Inschess? If have determined that this waste needs all applicable treatment standards set forth in 40 CFR Part 268 Subpart D, and all applicable prohibition (grein set forth in Section 268.22 or RTRA Section 3004.01), and therefore, can be land disposed forbit further treatment. A copy of all applicable treatment sendands and specified treatment methods is maintained at the treatment, storage and disposed facility mends above. In certify under ponality of law that personally have assumed and an implicate with the waste through analysis and testing at through downloady of he waste to support this certification that the waste complies with the treatment standards specified in AO CFR Part (68 Subpart D and all applicable prohibitions set forth on 40 CFR 268.32 or RCRA section 3004.03. I wildere that the information is associated in true, according and complete. I am mater that there are significant mention for authority support To Part 268 RESTRICTIONS. All applicable for authority support the part 268 RESTRICTIONS. All applicable and a could information that the in restrictions.	AESTRICTED MASTE HI Certify under union of the tree immediately respond teined property of prohibitions set Haste. I an even of fine and import RETRICTED HASTES TREATED BY THAT II HI certify under I I am every that II and importaneous, mod FAITH AMALTY! "I certify under I of the treebent!	THEATED TO PERFORMACE STAND purmitry of law that I have process used to excoor masible for obtaining this in in as to cooply with the perform in 40 EFR 268.32 or RC at the there are significant somewhat." FOR UNICH THE TREATMENT STANDENCY OF the Law that the there are significant permitry of the Law that the there are significant permits are significant permits. ICAL CERTIFICATION FOR INCINE COMMENTS WERE A LAW TO THE THE TOWNS A LAW TO THE TOWNS A LAW TO THE TOWNS AND THE TOWN AND THE TOWNS AND THE	E EUDJec ARDS AMSONNILY T This or formation DEMAND IS ADSTRICT ADSTRICT TEATED OR TREMENTED OR TREMENTED	t to the elternative y examined and am fact relification and that in, I believe that that in a Jookfd) without in a for submitting a fill pass of a SPECI been treated in accommitting a false centering a false centering and am family and that, beauty and that, beauty and that, beauty are the second and that, beauty and that, beauty are the second and that, beauty are the second and that, beauty are the second and that, beauty are that the second are the second are the second are that the second are the seco	Treatment standards of 60 cfs siliar with the treatment techn, based upon my inquiry of the treatment process has been by 0 cfs part 268 Dappart D and 1 permissible dilution of the polar contilication, including fied TECHNOLOGY (AND THE WASTE ordance with the requirements diffication, including the possible with the treatment technology my industry of those and tupon my industry of those and	Part 265.45.* nology and commerce individuals persented and main all applicable rohibited the possibility of 40 CPE 268.62 (b) (19) of fine ology and operatividuals
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engities for admitting felse corrifications, including the populatity of a fine and imprisonment." MITE IS NOT CONTRIBLY RUPLET TO FART 25% ESTRECTIONS Also remain for a main of description that is not represently significat to have 40 CFR Part 25% restrictions.	AESTRICTED MASTE "I certify under ution of the tree immediately respond tained properly so prohibitions set Maste. I an ever define and import "I certify under it and imprisonment, mood FAI'M AMALY! "I certify under it and imprisonment, mood FAI'M AMALY! "I certify under it and imprisonment, immediately respond tracted by incine conduction in fuel conduction in fuel conduction in fuel conduction in fuel conduction in tolument this maste is abb hibition in tolument Marandon Industrial	THEATED TO PERFORMACE STAND promitry of law that I have portained process used to successful for the form of as to couply with the performance in the form of the form of the form of the form of the formance. The their side of the formance is the their side of the formance is the formance. The Which the Treatment stands from the formance is significant penaltic in their significant penaltic is the formance of	E EUDJec ARDS ersonally T this or formation PATED OR RATED OR RATED OR RATED OR PERMITTION CONTENNALLY ENTITION CONTENNALLY ENTITION CONTENNALLY ENTITION ENTITION ENTITION ENTITION ENTITION	t to the elternative y examined and am fact relification and that not believe that the levels apacified in 4 on 3004(d) without in a for submitting a fill ExpRESSED AS A SPEEL been treated in accountring a false cententially a false centering a false centering a false centering and has familiated and that, bessed a time 40 CFE Peer 2 of the 1 or submitted and that the auth 40 CFE Peer 2 or a case-by-case examples and the submitted and the s	treatment standards of 6d creation with the treatment technical sport my inquiry of the treatment process has been by 0 EFR part 268 Dappart D and i permissible dilution of the permissible dilution of the permissible dilution, including fIED TECHNOLOGY (AM) THE WASTE ordance with the requirements diffication, including the possibility of those ind nonwaxtanter organic constitute Subpart O or Part 265 Subpart O or Part 265 Subpart O or Part 265 Subpart of the permissible technical requirements, and bost good faith efforts to mitting a false certification, termion. Enter the effective	Part 265.45.* notagy and commerce individuals perated and main all applicable robbited the possibility of the cology and operatividuals leviduals for by a line of the cology and operatividuals for by a line of the cology and operatividuals for by a line of the cology and operatividuals for by a line of the cology and operatividuals for by a line of the cology and operativity and the cology an
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EXHIBIT

SUMMARY REPORT FORMER ABOVE-GROUND STORAGE TANK (AST) SITE 753



NOTE: ANNOTATIONS MADE BY THE WRITER OF THE SUMMARY REPORT ARE IDENTIFIED WITH AN ARROW OR A STAR SYMBOL.

Exhibit 1.

FORMER ABOVE-GROUND STORAGE TANK (AST) SITE 753

Tentative Reuse Plan

The Airport and Open Space Plan, Year 2020, Concept C (County of Orange, 1998)

MARINE CORPS AIR STATION, EL TORO

1997 BUILDING GUIDE EXTRACTS

SUMMARY REPORT FORMER ABOVE-GROUND STORAGE TANK (AST) SITE 753

El Toro Building Guide

			· · · · · · · · · · · · · · · · · · ·			EXTRAC		
	BLDG	GRI	DESCRIPTION	TENANT	CATCO	ENJAC	SIZE	
	751	M10	Hazardous/Flam Storage	MALS-11	44130	EBDO	126 SF	
	752	N10	Fuel Farm #5 Office	Supply	61010	EBFO	348 SF	
\rightarrow	753	T7	Pest Control Bldg	Installation	44130	EBDO	1118 SF	
	755	R12	LOX/NOX Shelter	Supply	14187	EBNO	150 SF	
	756	R12	LOX/NOX Shelter	MALS-11	14187	EBNO	150 SF	
	757	M2	Telephone Office	Sta/G-6			1716 SF	
	758	U7	Vehicle Washrack Util Bldg	MWSG-37	89009	EAPO	228 SF	
	759	T7	Vehicle Washrack Util Bldg	CSSD-14	89009	EAPO	228 SF	
	760	U8	Vehicle Washrack Util Bldg	CSSD-14	89009	EAPO	228 SF	
	761	R11	ACFT Washrack Utility Bldg	MAG-11	89009	EAPO	684 SF	
	762	P13	Vehicle Washrack Util Bldg	MWSG-37	89009	EAPO	228 SF	
	763	N10	ACFT Washrack Utility Bldg	MAG-11	89009	EAPO	684 SF	
	764	M9	Vehicle Washrack Util Bldg	MALS-11	89009	EAPO	228 SF	
	765	S5	Vehicle Washrack Util Bldg	MWSS-371	89009	EAPO	228 SF	
	766	R5	Vehicle Washrack Util Bldg	Aero Club	89009	EAPO	228 SF	
	767	M7	Billboard	MAG-11	69010	· ECLO	1 EA	
	769	Т6	HW Collection Facility	Environment	83141	EAQO	204 SF	
	770	77	HW Collection Facility	Environment	83141	EAQO	204 SF	
	771	S4	HW Collection Facility	MWSG-37	83141	EAQO	204 SF	
	772	P13	HW Collection Facility	Environment	83141	EAQO	204 SF	
	773	M2	Antenna-MARS	CEO	13210	ECCO	1 EA	
	774	M2	Antenna-MARS	CEO	13210	ECCO	1 EA	
	775	N2	Antenna-MARS	CEO	13210	ECCO	1 EA	
	776	M2	Antenna-MARS	CEO	13210	ECCO	1 EA	
	777	M2	Antenna-MARS	CEO	13210	ECCO	1 EA	
	778	U9	HW Collection Facility	Environment	83141	EAQO	204 SF	
	779	N10	HW Collection Facility	Environment	83141	EAQO	204 SF	
	780	G14	Ready Serv Magazine	EOD	42135	EBQO	128 SF	
	781	G15	Ready Serv Magazine	Sta Ordn	42135	EBQO	512 SF	
	782	Q13	Golf Course Maint Bldg	MWR/Rec	74080	EBLO	1320 SF	
	783	P2	Exchange Admin	MWR/Ret	74003	EBLO	10683	
	783	P2	MCX Service Outlets	MWR/Ret	74009	EBLO	11037	
	784	Q13	DRMO Field Office Lot #2	DRMO	61010	EBFO	400 SF	
	785	Q11	Aviation Maint Bldg	VMFAT-101	21106	EBVO	5600 SF	
	786	P12	Aviation Armament	MALS-11	21154	EBVO	3000 SF	
	787	P12	NBC Defense Training	MWHS-3	17110	EBAO	4000 SF	
	788	L2	Recreation Pavilion	MWR/Rec	74078	EBLO	1500 SF	
	789	U6	Sewage Monitoring Station	Installation	83229	EHFO	36 SF	
	790	S13	Golf Cart Bldg	MWR/Rec	74080	EBLO	3471 SF	
	791	Т3	Officers Club	MWR/Hosp	74060	EBLO	22500	,
	792	K7	Stables Barn	MWR/Rec	74079	EBLO	2880 SF	
	793	О3	Mc Donald's	MWR/Hosp	74004	EBLO	3754 SF	
	794	Q4	EOD Team Bldg	EOD	14320	EBPO	3600 SF	
	795	E14	EOD Range Bldg	EOD	14320	EBPO	340 SF	
	796	M10	Substation/Chiller Bldg	Installation	82610	EBPO	1518 SF	
	797	R5	AVGAS Fueling Station	DLA	12120	ECDO	800 GM	

EXTRACTS FROM BASE REALIGNMENT AND CLOSURE CLEANUP PLAN (BCP)

SUMMARY REPORT FORMER ABOVE-GROUND STORAGE TANK (AST) SITE 753

Base Realignment and Closure Cleanup Plan (BCP)



EXTRACTS

For Marine Corps Air Station El Toro, CA

March 1999

Table 3-1a Site Summary (Sheet 18 of 34)

	Database Tracking	LRA Reuse Parcel	Description	Material Disposed	Date of Status Operation	Risk to Human Health and the Environment	Regulatory Mechanism	NFA	Comments	ECP Area Type*
490	AST 390B	7	500 gallons - VT	Diesel (stored)	Active				See Table 3-8	2
491	AST 439	32	500 gallons - HT	Propane (stored)	Active				See Table 3-8	2
492	AST 464	7	500 galions -HT	Propane (stored)	Active				See Table 3-8	
493	AST 610	40	300 gallons - HT (formerly AST "610B")	Diesel Fuel Oil (stored)	Active				See Table 3-8	2
494	AST 619	7	size unknown	Diesel (stored)	Active				See Table 3-8	2
495	AST 637	42	500 gallons	Propane (stored)	Removed			Х	See Table 3-8; not plotted on BCP Figures	1
496	AST 651	32	1,000 gallons - HT	Propane (stored)	Active				See Table 3-8	2
497	AST 670	32	1,000 gallons	Liquid Propane Gas (stored)	Removed			Х	See Table 3-8; not plotted on BCP figures	1
498	AST 717	29	500 gallons - HT	Diesel (stored)	Active				See Table 3-8	2
499	AST 753	29	200 gallons - yellow HT	Pesticides (stored)	Active				See Table 3-8	7
500	AST 797	. 23	1,000 gallons - HT (labeled Hazardous Waste)	Waste Oil (stored)	Inactive				See Table 3-8	2
501	AST 862	27	30,000 gallons - HT (per note "C," it is Hazardous Waste)	JP-5 (stored)	Inactive				See Table 3-8	2
502	AST 883	32	1,000 gallons - rectangular yellow tank (relocated from B626) (formerly AST 626)	Empty, formerly waste oil (stored)	Removed				See Table 3-8	1
503	TAA 2	32	< 90-day accumulation area - Hanger 2		Active				See Table 3-9	3
504	TAA 5A	32	< 90-day accumulation area- Bldg. 5		Inactive				See Tables 3-9 and 3-13; SWMU/AOC 25	1
505	TAA 5B	32	< 90-day accumulation area- Bldg 5		Active				See Tables 3-9 and 3-13; SWMU/AOC 26	6
506	TAA 7	32	< 90-day accumulation area- Bidg 7		Inactive				See Table 3-9	1
507	TAA 10	32	< 90-day accumulation area- Bldg 10		Active				See Tables 3-9 and 3-13; SWMU/AOC 27	1
508	TAA 19	32	< 90-day accumulation area- Bldg 19		Inactive				See Table 3-9	7
509	TAA 22	32	< 90-day accumulation area- Bldg 22		Active				See Table 3-9	3
510	TAA 29A	32	< 90-day accumulation area- Bldg 29		Inactive				See Tables 3-9 and 3-13; SWMU/AOC 30	3
511	TAA 29B	32	< 90-day accumulation area- Bldg 29		Inactive				See Tables 3-9 and 3-13; SWMU/AOC 31	3
512	TAA 31A	32	< 90-day accumulation area- Bldg 31		Active				See Tables 3-9 and 3-13; SWMU/AOC 272	1
513	TAA 31B	32	< 90-day accumulation area- Bldg 31		Inactive				See Table 3-9	3

Table 3-8 Aboveground Storage Tank Inventory (Sheet 2 of 2)

Database Tracking	LRA Reuse Parcel	Location	Description (Size/Contents/Type)	Status	AST No.	Source	ECP Area Type
AST 753	29	Building 753 (NW side)	200 gallons - yellow HT	Active	753	A, F	7
AST 797	23	Building 797	1,000 gallons - HT (labeled Hazardous Waste)	Inactive	797	A, F	2
AST 862	27	Building 862 (adjacent to 789 & 496)	30,000 gallons - HT (per note "C," it is Hazardous Waste)	Inactive	862	A, C, F	2
AST 883	32	Building 883 (S side)	1,000 gallons - rectangular yellow tank (relocated from B626) (formerly AST 626)	Removed	883	F	1

Notes:

- (A) Personal communications, R. Duffin/MCAS El Toro EO, February/March 1993. Contingency Plan, January 1994.
- (B) SAIC, Draft Oil and Hazardous Substances Spill Prevention and Countermeasure Plan and Contingency Plan, January 1994.

(C) MCAS El Toro Building Guide (July 8, 1995).

- (D) EGG, MCAS El Toro Underground Storage Tank Survey Report, November 1990. This report identified these tanks as underground storage tanks, however the tanks were later identified as aboveground storage tanks by Station staff (source E).
- (E) Personal communications, Lt. H. Katcharian/MCAS El Toro EO, December 1997.
- (F) Ongoing field verification inventory study under CLEAN II (CTO-0075).

- Abbreviations: AST aboveground storage tank
 - CTO Contract Task Order
 - ECP environmental condition of property
 - EO Environmental Office
 - HT horizontal tank
 - VT vertical tank

EXTRACTS FROM EBS

SUMMARY REPORT FORMER ABOVE-GROUND STORAGE TANK (AST) SITE 753

MARINE CORPS AIR STATION EL TORO EL TORO, CALIFORNIA INSTALLATION RESTORATION PROGRAM FINAL ENVIRONMENTAL BASELINE SURVEY REPORT

01 April 1995

Revision 0

EXTRACTS

PREPARED BY: Southwest Division, Naval Facilities Engineering Command 1220 Pacific Highway San Diego, California 92132-5190

THROUGH:
CONTRACT #N68711-89-D-9296
CTO #284
DOCUMENT CONTROL NO:
CLE-C01-01F284-S2-0004

WITH: Jacobs Engineering Group Inc. 401 West A Street, Suite 1905 San Diego, California 92101

In association with: International Technology Corporation CH2M HILL

Table 3-5 Aboveground Storage Tank Inventory MCAS El Toro EBS Report - April 1995

Database Tracking	Location	Size/Contents	Status	AST No.	Source	Area Type
AST 126	Bldg. 126	300 gal./10:10 Oil	Active	126	Α	7
AST 155	Bldg. 155	200 gal./Lube Oil	Active	155	Α	7
AST 245	Bldg. 245	1,000 gal./LPG	Active	245	В	7
AST 317	Bidg. 317 C1	5,000 gal./Diesel	Active	317 C1 (1)	Α	7
AST 390A	Bldg. 390	500 gal./Unleaded	Active	390A	Α	7
AST 390B	Bldg. 390	500 gal./Diesel	Active	390B	Α	7
AST 626	Bldg.626	1,000 gal./Waste Oil	Inactive	626	Α	7
AST 637	Bldg. 637	500 gal./Propane	Active	637	В	7
AST 651	Bldg. 651	1,000 gal./Propane	Active	651	В	7
AST 670	Bldg. 670	Unknown/LPG	Active	670	С	7
AST 717	Bldg. 717	500 gal./Diesel	Active	717	Α	7
► AST 753	Bldg. 753	200 gal./Pesticides	Active	753	Α	7
AST 797	Bldg. 797	1,000 gal./Waste Oil	Active	797	Α	7
AST 862	Bldg. 862	30,000 gal./JP-5	Active	862	Α	7

Notes:

LPG = liquid propane gas

(1) AST 317 C1 is owned and operated by the Station's municipal waste management contractor.

Sources:

- A = Personal communications, R. Duffin/MCAS El Toro EO, February/March 1993.
- B = SAIC, Draft Oil and Hazardous Substances Spill Prevention and Countermeasure Plan and Contingency Plan, January 1994.
- C = MCAS El Toro Building Guide, 1993.

EXTRACTS FROM SWPPP

SUMMARY REPORT FORMER ABOVE-GROUND STORAGE TANK (AST) SITE 753

EXTRACTS

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

FOR

NOTE: ANNOTATIONS MADE BY THE WRITER OF THE SUMMARY REPORT ARE IDENTIFIED WITH AN ARROW OR A STAR SYMBOL.

MARINE CORPS AIR STATION EL TORO EL TORO, CALIFORNIA

CONTRACT NO. N68711-96-D-2059 DELIVERY ORDER NO. 0002

VOLUME 1

JULY, 1997

INTEGRATED ENVIRONMENTAL MANAGEMENT, INC.

Volume 1 Final

Recommended BMPs include regular inspection and maintenance of the oil/water separator and low-flow

diversion pumps and removal of sediments.

Building 717 - Crash, Fire, Rescue Storage - Station/G-3

No industrial activities occur in this area, however, there is a small hazardous waste/hazardous materials

storage shed near Building 717 that contains a small tank within a bermed floor. Paint lockers are also located

outdoors in an uncovered, unfenced containment structure consisting of sand bag berms and heavy plastic

sheeting. A spill kit and SPCCP are present. Potential pollutants included lacquer, engine oil, spray paint,

hydraulic fluid, gear oil and cleaning fluid.

Existing BMPs include a SPCCP, a spill kit, and spill response training. Recommended BMPs include

removing the sand bag containment installing a covered, concrete secondary containment structure with a sump

for storage of the paint lockers.

→ Building 753 - Pest Control Building - Installation

No industrial activities were performed in this area. Potential pollutants included sodium hypochlorite,

biodegradable insecticide, aerosol, lacquer and herbicides. A tank containing an unidentified liquid was

contained within a metal drip pan was located on a shipping dock outside Building 753. Water, identified by a

sign stating "Contaminated Water", was observed to be leaking from piping beside the dock, running

downslope on the paved parking lot, and entering the subsurface through a significant crack in the paving.

Existing BMPs include dry sweeping the floor. No SPCCP was in place, but there was a spill cleanup kit and

personnel have had spill cleanup training. BMP recommendations are to develop a SPCCP.

Building 758 - Vehicle Wash Rack Utility Building - MWSG-37

This facility is located inside the transportation yard and consists of a bus wash rack. The wash rack is bermed

and drains to an oil/water separator (#758). A natural gas-fired water heater with a water pump is also located

at the site. The oil/water separator was partially dismantled and undergoing repair, however, the wash rack was

still being used. Significant waste wash rack water was also being splashed outside the berm where it could

then be discharge to the nearest storm drain. Cleaning agents are stored in a shed adjacent to the wash rack

with no secondary containment.

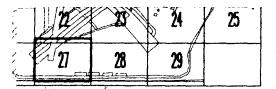
5-14

TABLE 6-1 MCAS EL TORO

STATIONWIDE SUMMARY OF BMPs TENANT **BMP BMP BMP** Description **BLDG**# **BASIN** BUILDING Concern **STATUS** # Level DESCRIPTION Place Spill Kit in Area Existing 065 No Additional BMPs Recommended Contract Refueler Supply Previous 08 747 Facility Public Toilet/Van MWHS-3 Limited No Additional BMPs Recommended 08 748 Complex Public Toilet/Van No Additional BMPs Recommended 08 MALS-11 Limited 749 Complex Sentry Booth/Van No Additional BMPs Recommended 750 08 MALS-11 Limited Complex Hazardous/Flammable No Additional BMPs Recommended 751T 08 MALS-11 Previous Storage Locker 08 Fuel Farm #5 Office Limited No Additional BMPs Recommended 752 Supply Installation Rec 009 753 01 Pest Control Bldg Concern Personnel Training Rec 112 Prepare Appropriate Spill Prevention and Response Plans Existing 005 Provide Regular Sweeping of Floor/Lot Existing 065 Place Spill Kit in Area MARS Facility CEO Limited No Additional BMPs Recommended 757 14 Vehicle Washrack 012 MWSG-37 Concern Rec Construct Berm or Dike Around Critical Areas 01 758 Utility Building 110 Regularly Inspect and Maintain Storm Water Conveyance Systems Rec

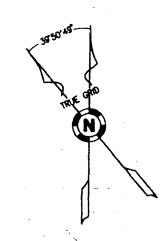


		MC			LS INVENTÖRY			
BLDG#	BASIN	BUILDING DESCRIPTION	TENANT	Concern Level	TRADE/COMMON NAME	MAX.	AVE.	CONT.
730	24	UST-Communications Center	Station/G-6	Concern	Diesel Fuel No. 2	1000 gal	500 gal	1000 gal
726#13	37	HM Storage	VMFAT-101	Concern	Hydraulic fluid, fire resistant	78 gal	36 gal	l gal
744	26	Armory Small Arms Shop	MWSS-373 CSSD-14	Concern	Cleaner	N/A	N/A	N/A
746	08	Flight Simulator	Training	Concern	Lubricating Oil	N/A	N/A	5 gal
→ 753	01	Pest Control Bldg	Installation	Concern	N/A			
755		Tank	Station		Liquid Nitrogen	2000 gal	1000 gal	20000gal
758	01	Vehicle Washrack Utility Building	MWSG-37	Concern	N/A			
761	37	ACFT Washrack Utility Building	MAG-11	Concern	N/A			
762	10	Vehicle Washrack Utility Building	MWSG-37	Concern	N/A			
763	08	ACFT Washrack Utility Building	MAG-11	Concern	N/A			
764	08	Vehicle Washrack Utility Building	MALS-11	Previous	N/A			
765	22	Vehicle Washrack Utility Building	MWSS-371	Concern	N/A			



EY PLAN

CALE: NONE

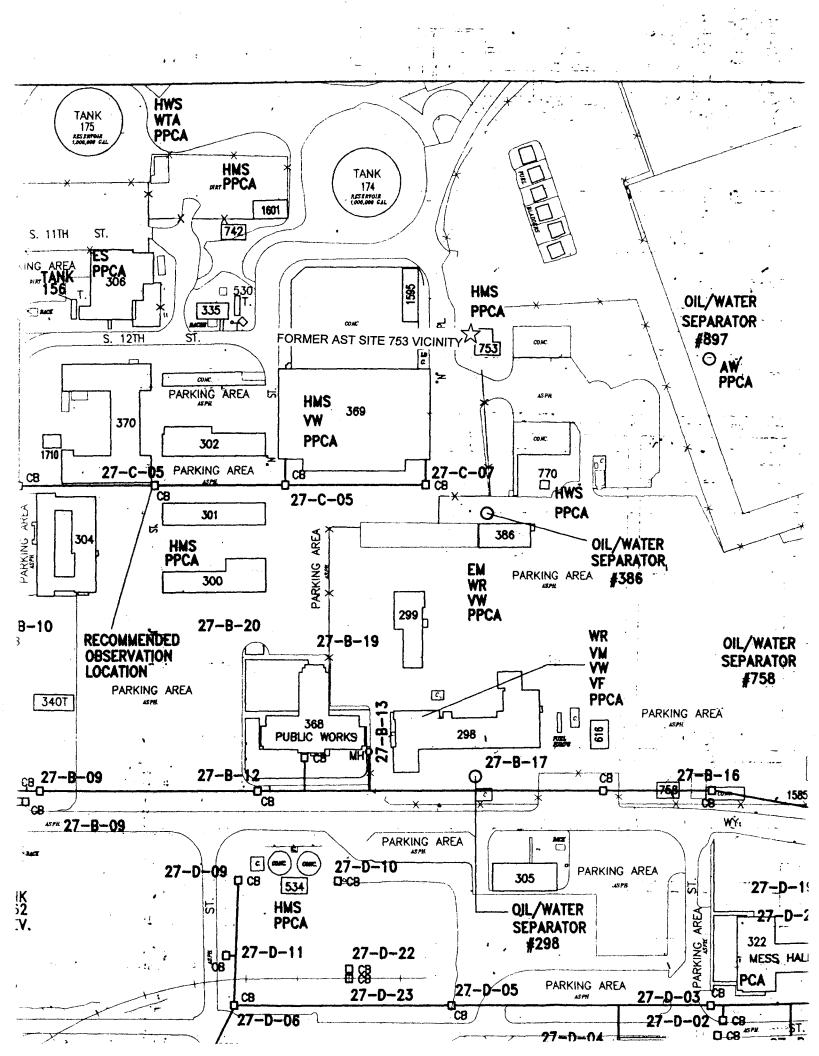


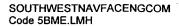
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HAN 22X34 IT IS A REDUCED PRINT SCALE ACCORDINGLY

IEM IVIRONMENTAL MANAGEMENT, INC.

ITIN, CALIFORNIA 92680 (714) 731-5977 • (714) 731-5976 DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND SOUTHWEST DIVISION EL TORO **CALIFORNIA** MARINE CORPS AIR STATION EL TORO, CA. "MCAS" EL TORO AREA 27 - STORM DRAINS CODE IDENT. NO. SIZE NAVFAC, DRAWING NO. D CONT. CONTR. NO. XXXXX **SCALE** SPEC. SHEET OF _





No Further Action Documents (Closure Letters and Record of Decision Extracts) for Nearby Environmental Locations of Concern and Selected Information from the Installation Restoration Program Documents



Winston H. Hickox Secretary for Environmental Protection

Department of Toxic Substances Control

Edwin F. Lowry, Director 5796 Corporate Avenue Cypress, California 90630



Gray Davis Governor

August 20, 1999

Mr. Dean Gould BRAC Environmental Coordinator U.S. Marine Corps Air Station - El Toro P. O. Box 51718 Irvine, California 92619-1718

SUMMARY REPORT FOR AERIAL PHOTOGRAPH ANOMALY (APHO) 7, MARINE CORPS AIR STATION (MCAS) EI TORO

Dear Mr. Gould:

The Department of Toxic Substances Control (DTSC) has reviewed the above report dated July 14, 1999 and the Addendum inspection checklist dated July 20, 1999. The Report presents the results of the record search activities and a visual inspection of the APHO 7 (Also known as Science Applications International Corporation (SAIC) 46). The anomaly is described as wet soil or stains in the vicinity of Building 386 and Building 369 within the boundary of IRP Site 24. APHO 7 was identified on an aerial photograph dated December 1946, and the surface area of the anomaly is approximately 300 feet in diameter.

The report recommends a no further action status for APHO 7 based on evaluation of historical aerial photographs, Station maps and plans, Station property records, environmental program management plans, the results of previous environmental restoration program investigations, and visual site inspections conducted in July 1999.

DTSC concurs with the proposed no further action status designation for the APHO 7. The no further action status can be documented in the next BRAC Cleanup Plan updated. If you have any questions, please contact me at (714) 484-5418.

Sincerely,

Tayseer Mahmoud

Remedial Project Manager Southern California Operations Office of Military Facilities

cc: See next page

California Environmental Protection Agency

Printed on Recycled Paper

Mr. Dean Gould August 20, 1999 Page 2

cc: Mr. Glenn Kistner, SFD-8-2
Remedial Project Manager
U. S. Environmental Protection Agency
Region IX, Superfund Division
75 Hawthorne Street
San Francisco, California 94105-3901

Ms. Patricia Hannon Remedial Project Manager California Regional Water Quality Control Board Santa Ana Region 3737 Main Street, Suite 500 Riverside, California 92501-3339

Mr. Gregory F. Hurley Restoration Advisory Board Co-chair 620 Newport Center Drive, Suite 450 Newport Beach, California 92660-8019

Ms. Polin Modanlou MCAS El Toro Local Redevelopment Authority 10 Civic Center Plaza, 2nd Floor Santa Ana, California 92703

Ms. Lynn Hornecker Remedial Project Manager Naval Facilities Engineering Command Southwest Division - Code 5BME.LH 1220 Pacific Highway San Diego, California 92132-5187



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IX

75 Hawthorne Street San Francisco, CA 94105

October 6, 1999

Mr. Dean Gould BRAC Environmental Coordinator MCAS El Toro P. O. Box 51718 Irvine, CA 92619-1718

Re: Department of Navy (DoN) No Further Action Recommendations for Seventeen (17) Aerial Photograph Anomaly (APHO) Sites at MCAS El Toro, CA

Dear Mr. Gould:

The United States Environmental Protection Agency (EPA) has received your letter of September 10, 1999, with the 17 APHO sites referenced above. EPA concurs with the DoN and with the State of California Department of Toxic Substances Control that no further action is necessary at those sites. We appreciate the opportunity to participate in this evaluation process.

Sincerely,

Glenn Kistner

Remedial Project Manager

Federal Facilities Cleanup Branch

cc: Alice Gimeno, DTSC
Patricia Hannon, RWQCB

Gregory Hurley, RAB Co -Chair

Polin Modanlou, LRA

Lynn Hornecker, SWDIV

Southwest Division
Naval Facilities Engineering Command
Contracts Department
1220 Pacific Highway, Room 135
San Diego, California 92132-5187

Contract No. N68711-92-D-4670

COMPREHENSIVE LONG-TERM ENVIRONMENTAL ACTION NAVY

CLEAN II

EXTRACTS

NOTE: ANNOTATIONS MADE BY THE NOTE: ANNOTATIONS MADE BY THE SUMMARY REPORT WRITER OF THE SUMMAR ARROW OR ARE IDENTIFIED WITH AN ARROW A STAR SYMBOL.

FINAL WORK PLAN PHASE II REMEDIAL INVESTIGATION/ FEASIBILITY STUDY MCAS EL TORO, CALIFORNIA

CTO-0059

Prepared by:

BECHTEL NATIONAL, INC. 401 West A St., Suite 1000 San Diego, California 92101

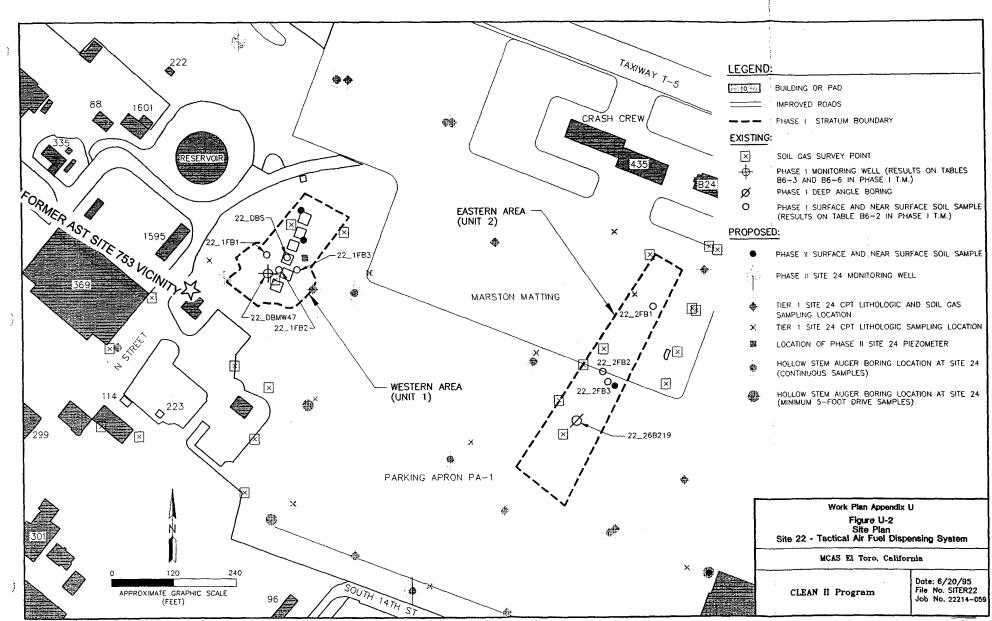


July 1995

Signature:

Timothy W Latak CTO Leader

Date: 7/28/95



EXTRACTS

DRAFT FINAL RECORD OF DECISION OPERABLE UNITS 2A AND 3A NO ACTION SITES MARINE CORPS AIR STATION EL TORO, CALIFORNIA

SEPTEMBER 1997

DECLARATION

Date: 09/26/97

DECLARATION

SITE NAME AND LOCATION

Marine Corps Air Station (MCAS) El Toro Operable Unit-3A, Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, and 22 Operable Unit-2A, Site 25 Orange County, California

STATEMENT OF BASIS AND PURPOSE

This decision document presents the selected remedial action for Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, 22, and 25 at MCAS El Toro in Orange County, California. The document was developed in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), as amended by the Superfund Amendments and Reauthorization Act of 1986 and, to the extent practicable, the National Oil and Hazardous Substances Pollution Contingency Plan. This decision is based on the administrative record file for these sites.

The State of California (through the California Environmental Protection Agency, Department of Toxic Substances Control, and Santa Ana Regional Water Quality Control Board) and the U.S. Environmental Protection Agency concur with the selected remedy.

DESCRIPTION OF THE SELECTED REMEDY: NO ACTION

The selected remedy for Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, 22, and 25 is no action. In selecting the no action remedy for these sites, the Navy has determined that the existing condition of the sites is protective of human health and the environment.

Although no deed restrictions are required because of chemicals present in soils at the no action sites, shallow groundwater underlying Sites 9, 10, 13, 15, 21, 22, and portions of Site 25 is contaminated by trichloroethene and tetrachloroethene. Remedial investigations have shown that the contamination does not originate from these sites but from Site 24, the volatile organic compound source area. Use restrictions for several sites (including Site 24 and the no action sites listed above) prohibiting drilling of wells and/or extraction of groundwater and allowing access for groundwater monitoring and maintenance of equipment associated with groundwater remediation will be addressed in the Proposed Plan(s) and Record(s) of Decision for Operable Unit-1 and -2A regarding groundwater.

DECLARATION STATEMENT

Based on extensive field investigations, laboratory analyses, and a thorough assessment of potential human-health risks at each location and of potential ecological risks at Site 25, the Navy has determined that no remedial action is necessary to assure the protection of human health and the environment at Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, 22, and 25. The Remedial Investigations of these sites show that contamination is limited to the shallow soil interval (Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, and 22) and to sediment and

13.05 NO.COL F.UZ

Date: 09/20/07

Centeration

surface water (Site 25). The human beaith and ecological risk assessments show that the chemicals present in these media do not present an unacceptable risk to human health or the environment. Therefore, no remedial action is required at these sites. Since hazardous substances are not present at concentrations above unacceptable levels. CERCLA Section 121 cleanup standards do not apply.

Signature:

ers and Reslignment Environmental Coordinator

Marine Corps Air Station Bi Toro

Signature

Mr. John E. Scandiffe. Chief Southern California Operations

Office of Military Facilities

Department of Toxic Substances Control

Signature:

Mr. Daniel D. Opalski, Chief

Federal Facilities Cleanup Branch

United States Environmental Protection Agency, Region 1X

· Signature:

Mr. Gerald J. Thiobesult

Executive Officer

Regional Water Quality Control Board, Santa Ana Region

Date: 9/29/97
Date: 9/30/97

surface water (Site 25). The human health and ecological risk assessments show that the chemicals present in these media do not present an unacceptable risk to human health or the environment. Therefore, no remedial action is required at these sites. Since hazardous substances are not present at concentrations above unacceptable levels, CERCLA Section 121 cleanup standards do not apply.

Signature:		Date:	
•	Mr. Joseph Joyce		
	Base Closure and Realignment Environmental Coordinator		
	Marine Corps Air Station El Toro		
	•		
Signature:		Date:	
	Mr. John E. Scandura, Chief		
	Southern California Operations		
	Office of Military Facilities		
	Department of Toxic Substances Control	•	
	1	•	
Signature:		Date:	
J	Mr. Daniel D. Opalski, Chief		
	Federal Facilities Cleanup Branch		
	United States Environmental Protection Agency, Region IX		
	55 55 25 1		
Signature:		Date:	
o. <u>B</u>	Mr. Gerald J. Thiebeault		
	Executive Officer		
	Regional Water Quality Control Board, Santa Ana Region		
	Regional Water Quanty Control Doard, Sand And Region		

EXTRACTS

FINAL

GROUNDWATER MONITORING REPORT OCTOBER 1997 SAMPLING ROUND

GROUNDWATER MONITORING PROGRAM FOR MARINE CORPS AIR STATION EL TORO EL TORO, CALIFORNIA

Contract No. N68711-96-D-2029 Delivery Order 005

Prepared for:

SOUTHWEST DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
1220 Pacific Highway
San Diego, California 92132

Prepared by:

CDM FEDERAL PROGRAMS CORPORATION 3760 Convoy Street, Suite 210 San Diego, California 92111

March 1998

Table B-1: WATER LEVEL MEASUREMENTS AND GROUNDWATER ELEVATIONS MCAS EI Toro Groundwater Monitoring Program

STATION ID	WELL TYPE	SCREEN INTERVAL (feet BGS)	TOP OF CASING ELEVATION (feet MSL)	MEASUREMENT DATE	DEPTH TO WATER (feet TOC)	WATER LEVEL ELEVATION (feet MSL)	CHANGE FROM PRIOR ELEVATIO (+ or - feet)
22 DBMW47	WT	116 - 156	277.83	11-Jan-96	114.43	163.40	
			277.83	15-Feb-96	113.95	163.88	0.48
			277.83	28-Feb-96	114,01	163.82	-0.06
			277.83	27-Mar-96	113.66	164.17	0.35
			277.83	30-Oct-96	113.93	163.90	-0.27
			277.83	26-Nov-96	113.57	164.26	0.36
			277.83	26-Dec-96	113.58	164.25	-0.01
	ļ		277.83	23-Jan-97	113.08	164.75	0.50
			277.83	27-Feb-97	112.45	165.38	0.63
	-		277.83 277.83	27-Mar-97 26-Jun-97	112.70	165.13	-0.25
	 		277.83	11-Aug-97	113.30 113.36	164.53	-0.60
	 	75	277.83	24-Sep-97	113.36	164.47	-0.06
			277.83	7-Nov-97	112.95	164.78	0.31
	1		277.83	7-1404-37	112.95	164.88	0.10
24NEW1	SH	225 - 245	281.10	31-Oct-96	123.51	157.59	1
			281.10	26-Nov-96	118.78	162.32	4.73
			281.10	26-Dec-96	116.70	164.40	2.08
			281.10	23-Jan-97	115.26	165.84	1.44
			281.10	27-Feb-97	114.18	166.92	1.08
			281.10	27-Mar-97	120.28	160.82	-6.10
			281.10	26-Jun-97	122.25	158.85	-1.97
	<u> </u>		281.10	12-Aug-97	122.44	158.66	-0.19
	<u> </u>		281.10	24-Sep-97	122.35	158.75	0.09
	-		281.10	7-Nov-97	116.30	164.80	6.05
24NEW4	WT	108 - 148	281.80	26-Nov-96	109.75	172.05	
	1		281.80	26-Dec-96	109.50	172.30	0.25
			281.80	23-Jan-97	109.03	172.77	0.47
			281.80	26-Feb-97	108.86	172.94	0.17
			281.80	27-Mar-97	108.94	172.86	-0.08
			281.80	26-Jun-97	109.05	172.75	-0.11
			281.80	12-Aug-97	109.00	172.80	0.05
	 		281.80	24-Sep-97	108.72	173.08	0.28
			281.80	7-Nov-97	108.82	172.98	-0.10
24NEW5	SH	230 - 250	279.20	31-Oct-96	120.39	158.81	<u> </u>
			279.20	26-Nov-96	115.29	163.91	5.10
· · · · · · · · · · · · · · · · · · ·			279.20	26-Dec-96	112.34	166.86	2.95
	1		279.20	23-Jan-97	110.74	168.46	1.60
	1		279.20	27-Feb-97	109.62	169.58	1.12
			279.20	27-Mar-97	116.80	162.40	-7.18
			279.20	26-Jun-97	118.93	160.27	-2.13
			279.20	11-Aug-97	119.18	160.02	-0.25
			279.20	24-Sep-97	119.07	160.13	0.11
	 		279.20	7-Nov-97	112.12	167.08	6.95
24NEW6	SH	165 - 185	265.60	26-Nov-96	83.05	182.55	
	 		265.60	26-Dec-96	82.63	182.97	0.42
			265.60	23-Jan-97	82.02	183.58	0.61
			265.60	26-Feb-97	81.60	184.00	0.42
			265.60	27-Mar-97	82.43	183.17	-0.83
			265.60	26-Jun-97	83.14	182.46	-0.71
	1		265.60	11-Aug-97	83.33	182.27	-0.19
Activities of the second secon] 1		200.00 1	i i-Aug-o/ i	00.00	102.27	
		,	265.60	25-Sep-97	83.10	182.50	0.23

Table 4-1: SUMMARY OF DETECTED VOLATILE ORGANIC COMPOUNDS MCAS EI Toro Groundwater Monitoring Program

				PRII	MARY VOCs	DETECTED	AND REGUL	ATORY STA	NDARDS -	All Results in	n Microgram	s per Liter	(ug/L)		OTHER VOCS DET	ECTED
Station ID	Base Screen Depth	Sample Date	TCE	PCE	CCI₄	1.1-DCE	1,2-DCE (total)	Chloroform	Chloro- methane	Benzene	Toluene	Ethyl- benzene	Xylenes (total)	Freon-113		
~ 	(Ft BGS)		50	5.0	0.5	60		100 0		1.0	100 0	680 0	1750 0		Compound	Conce
21 UGMW37	130	13-Nov-92	11.0	7.0	1.0 U	100	100	10	40	10 U	10 U	10 U	10 u	ļ		
_		7-Jul-93	11.0	4.0	10 U	100	10 υ	0.8 J	2 O U	1.0 U	10 U	10 U	100	1	İ	
		12-Feb-96	12.0	40	1.0 U	100	1.0 U	100	10 0 U	1.0 U	12.0	100	1.0 U	100 U		
		11-Nov-96	25.0	13.0	10 U	10 U	2.0	10	10.0 U	1.0 U	10 U	1.0 U	1.0 U	100 U	METHYLENE CHLORIDE	10
		25-Mar-97	25.0	11.0	10 U	1.0.U	2.0	1.0	10 0 U	1.0 U	100	1.0 U	1.0 U	10.0 U		
		9-Jul-97	19.0	11.0	1.0 U	100	1.0	10J	10 0 U	1.0 U	10 U	1.0 U	100	10.0 U	1	
		9-Jul-97	18.0	10.0	1.0 U	10 U	0.8 J	101	100 U	100	10 U	10 U	10.0	10.0 U	1	
		27-Oct-97	21.0	9.0	10 U	05 J	10	10 J	10 0 U	1.0 ⋅ ∪	1.0 U	1 0 U	1.0 U	10.0 U	METHYLENE CHLORIDE	0.7
22_DBMW47	156	29-Sep-92	1000.0 E	7.0	5.0	10 U	1.0 U	3.0	2 0 U	1.0 U	1.0 U	10 U	10 U			
		13-Jul-93	1200.0 D	4.0	5.0	2.0	1.0 U	- 2.0	2.0 U	1.0 U	1.0 U	10 U	100	1		
		15-Feb-96	467.0	20	3.0	10	10 U	20	10 0 U	1.0 U	10 U	1 0 U	10 U	100 U		
		2-Dec-96	990.0	5.0	3.0	30	100	20	10.0 U	1.0 U	100	10 U	100	15 0		
		24-Mar-97	733.0	3.0	3.0	3.0	10 U	2.0	10.0 U	100	.1.0 U	10 U	10 U	70 J		
		8-Jul-97	760.0	10.0 U	10.0 U	10.0 U	10.0 U	10.0 ປ	100.0 U	10 0 ·U	100 U	10 0 U	10 0 U	100.0 U		
		8-Jul-97	730.0	10 0 U	10.0 U	10.0 U	10.0 U	10.0 U	100.0 U	10.0 U	10.0 U	10 0 U	10 0 U	100.0 U	1	
		23-Oct-97	540.0 E	3.0	3.0	3.0	1.0 U	2.0	10.0 · U	1.0 U	1.0 U	10 υ	1.0 U	8.0:1	•	
		23-Oct-97	770.0 D	25.0 U	25.0 U	25 D U	25.0 U	25.0 U	250 0 U	25.0 U	25.0 U	25.0 U	25.0 U	250.0 U	,	
24NEW1	245	30-Oct-95	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0	10.0 U	0.4 J	0.8.J	1.0 U	0.3 J	10.0 _: U	ACETONE	5.0
		:													BROMODICHLOROMETHANE	2.0
			1)	BROMOFORM	0.5
]											DIBROMOCHLOROMETHANE	2.0
		2-Nov-95	1.0 U	1.0 U	1.0 U	1 0 U	1.0 U	0.4 J	10.0 U	1.0 ប	2.0	0.6 J	3.0	10.0°U	DIBROMOCHLOROMETHANE	0.4
		2-Dec-96	102.0	2.0	10 U	1.0 U	1.0 U	1.0 U	10.0 U	1.0 U	10 U	1.0 U	1.0 ∪	10.0 U		
		24-Mar-97	155.0	0.8 J	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U	1.0 U	1.0 U	100	1.0 U	10.0 U		
		10-Jul-97	290.0	1.0	1.0 U	1.0 U	1.0 U	0.8 J	10.0 U	1.0 U	1.0.U	1.0 U	1.0 U	1.0 J		
		23-Oct-97	170.0 E	0.9·J	1 O.U	10 U	1.0.∪	05 J	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	08.1	METHYLENE CHLORIDE	6.0
		23-Oct-97	170.0 D	10.0 U	10.0 U	10 0 U	10.0 U	100U	100 0 U	10.0 U	10.0 _. U	10 O-U	10.0 U	100 0 U		
24NEW4	148	26-Oct-95	1000.0	10 U	100	1 0 U	100	1.0 U	10 0 U	1.0 U	1 0 U	10 U	1.0 U	10 0 U		
		2-Nov-95	10 0	10 U	10 U	100	10 U	100	10 0 U	10 U	10 U	1.0 U	1.0 U	10 0 U		
		3-Dec-96	1110.0	2.0	2.0	1.0	1.0 U	10	10 0 U	10 U	1.0 U	10 U	10 U	4.3 J		
		21-Mar-97	677.0	20 O U	20 0 U	20 0 U	20.0 U	20 0 U	200 0 U	20 0 U	20 0 U	20 0 U	20.0 U	200.0 · U	METHYLENE CHLORIDE	30.0
		8-Jul-97	640.0	10.0 U	10.0 U	10.0 U	10.0 U	100 บ	100.0 U	10.0 U	10.0 U	10.0 U	10 0 U	100.0 U		
		8-Jul-97	650.0	10.0 U	10.0 U	10 0 · U	10.0 U	100 U	100 0:U	10.0 U	100 U	10.0 U	10.0 U	100.0 U	1	
		23-Oct-97	390.0 E	0.5 J	1.0	05 J	1.0 U	0.8 J	10.0 U	1.0:U	1.0 U	10.0	1.0 U	2.0 J		
		23-Oct-97	580.0 D	25.0·U	25.0 U	25 0 U	25.0 U	25 O U	250.0 U	25.0 U	25.0 U	25 0 U	25.0 U	250.0 U		
		23-Oct-97	420.0 E	0.6 J	1.0	06 J	1.0 U	0.9.1	10.0 U	1.0 U	1.0 ∪	1.0 U	1.0 U	2.0 J	•	•
		23-Oct-97	620.0 D	25.0 U	25.0 U	25 0 U	25.0 _, U	25.0 ∪	250.0 U	25 O U	25 O U	25.0 U	25.0 U	250.0 _, U		
24NEW5	250	21-Nov-95	1.0 U	1.0 U	1.0 U	1.0 U	1 0 · U	1.0 U	10.0 U	1.0 U	1.0 U	1.0 U	1.0 Ú	10.0 U	ACETONE	4.0
													:		BROMODICHLOROMETHANE BROMOFORM	20 30
							,		· [, [· 1	. [DIBROMOCHLOROMETHANE	20
		2-Dec-96	0.7 J	2.0	1.0 U	10,0	10 U	1.0 U	10.0 U	1.0 _. U	100	10,0	1 0 U	10 0 U		
		24-Mar-97	7.0	1.0 U	1.0 U	1.0 U	1.0 _. U	1.0 U	10.0 U	1.0 U	1.0 U	1.0 U	10 U	10.0 U		
		8-Jul-97	1.0 U	1.0 U	1.0 U	10 U	10 U	100	10.0 U	100	100	100	10υ	10 D U		
		20-Oct-97	1.0 U	100	10 U	10 U	1.0 U	1.0 U	10.0 U	1.0 U	1.0 U	100	1.0 ∪	10.0 U	i	

Table 5-1: SUMMARY OF SEMIVOLATILE ORGANIC COMPOUND ANALYSES MCAS El Toro Groundwater Monitoring Program

l	Base		ANALYSIS	SUMMARY	TCL SEMIVOLATILE COMPO	UNDS DETECTE	ED	REGULA [*]	TORY
Station ID	Screen Depth (Ft BGS)	Sample Date	Number Compounds Analyzed	Number Compounds Detected	Compound Detected	Concent. ug/L	Qual. Flag	Standard ug/L	Code
22_DBMW47	156	29-Sep-92	64	0					
=		13-Jul-93	64	0	The second secon	Topics grant control of the second se		····	-
		15-Feb-96	64	0	THE COLUMN TWO IS NOT THE PARTY OF THE PARTY	and the broken the common of t	h		1
		24-Mar-97	64		The term of the same statement of the same s		,		
24NEW1	245	30-Oct-95	64	0					
24NEW4	148	2-Nov-95	64	0					<u> </u>
24NEW5	250	26-Oct-95	64	0					<u> </u>
24NEW6	185	26-Oct-95	64	Ö					
24NEW7	158	31-Oct-95	64	0			:		
24NEW8	162	1-Nov-95	64	0	V-5-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-				

EXPLANATION:

- 1) The 1996 and 1997 sample results listed in this table are as reported in the APCL laboratory analytical reports (Appendix E of the Groundwater Monitoring Reports).
- Regulatory Standard Codes: 1 = Federal MCL, 2 = State MCL, 3 = State Action Level TCL = target compound list, MCL = maximum contaminant level J = estimated value, B = present in blank
- 3) = Result exceeds regulatory standard

Table 6-1: SUMMARY OF PESTICIDES AND PCB ANALYSES MCAS El Toro Groundwater Monitoring Program

	Base		ANALYSIS	SUMMARY	TCL PESTICIDE COMPO	UNDS DETEC	TED	REGULATORY		
Station ID	Screen Depth (Ft BGS)	Sample Date	Number Compounds Analyzed	Number Compounds Detected	Compound Detected	Concent. ug/L	Qual. Flag	Standard ug/L	Cod	
18_RW3	390	4-Jun-93	28	0						
18_RW4	85	7-Jun-93	28	0		<u> </u>	-			
19_DBMW54	181	18-Dec-92	28	0		:				
		22-Jun-93	28	0						
19_DGMW85	183	16-Dec-92	28	0			1			
		16-Dec-92	28	. 0						
		10-Jun-93	28	0						
19_DGMW86	198	17-Dec-92	28	0						
		11-Jun-93	28	0						
19_UGMW35	185	8-Dec-92	28	0			!	-	<u> </u>	
		15-Jul-93	28	0					二	
20_DBMW55	227	9-Dec-92	28				<u> </u>		┼	
		17-Jun-93	28	0					二	
20_DGMW88	225	4-Nov-92	28	0					<u> </u>	
20_20		17-Jun-93	28	0						
20_UGMW36	223	28-Oct-92 18-Jun-93	28 28	0				 	-	
W. M. Million		10 0011 00				_	 	 	╁─╴	
21_DBMW56	132	18-Nov-92	28	0		i				
		18-Nov-92	28	0						
		24-Jun-93	28	0			 	 	—	
21_DGMW90	135	18-Dec-92	28	0		- 		ļ	╁	
		10-Jun-93	28	0					二	
21_UGMW37	130	13-Nov-92	28	. 0			1		<u> </u>	
	100	7-Jul-93	28	0						
22_DBMW47	156	29-Sep-92	28	. 0			i	<u> </u>	<u> </u>	
ZZ_UDIVIVV4/	130	13-Jul-93	28	0			 	 	┼	

EXPLANATION

- The 1996 and 1997 sample results listed in this table are as reported in the APCL laboratory analytical reports (Appendix E, Groundwater Monitoring Reports).
- Regulatory Standard Codes: 1 = Federal MCL, 2 = State MCL, 3 = State Action Level, NA = not applicable or established TCL = target compound list, MCL = maximum contaminant level J = estimated value
- 3) = result exceeds regulatory standard

Table 6-1: SUMMARY OF PESTICIDES AND PCB ANALYSES MCAS EI Toro Groundwater Monitoring Program

	Base		ANALYSIS	SUMMARY	TCL PESTICIDE COMPO	UNDS DETECTED	REGULAT	ORY
Station ID	Screen Depth (Ft BGS)	Sample Date	Number Compounds Analyzed	Number Compounds Detected	Compound Detected	Concent. Qual ug/L. Flag	Standard ug/L	Cod
07 DBMW100	171	8-Dec-92	28	0				
	1	8-Dec-92	28	0			+	
		4-Jun-93	28	0				
07.0018194	455	45 0 02	20	. 0				
07_DGMW71	155	15-Dec-92 22-Jun-93	28 28	. 0				
				i				
07_DGMW72	150	19-Nov-92 21-Jul-93	28 28	0			 	
		15-Oct-93	28	0			1	~
07_DGMW91	150	18-Dec-92 21-Jul-93	28 28	0			 	
		21-301-93	20				 	
08_DGMW73	130	2-Dec-92	28	0				
		20-Jul-93	28	. 0				
		20-Jul-93 14-Feb-96	28 28	0				
		20-Mar-97	28	1	ENDOSULFAN SULFATE	0.300		N/
00 0018181	420	46 Nov. 60	28	1	 			
08_DGMW74	130	16-Nov-92 16-Nov-92	28	0			+	
		16-Nov-92	28	0				
		16-Nov-92	28	0				
		20-Jul-93 14-Feb-96	28 28	0			 	
		19-Mar-97	28	1	ENDOSULFAN SULFATE	0.400	1	N/
		19-Mar-97	28	1	ENDOSULFAN SULFATE	0.400		N.
08_UGMW29	135	8-Dec-92	28	0				
00_000114423	100	9-Jul-93	28	0			1	
		9-Jul-93	28	0				
		14-Feb-96	28	0			 	
		25-Nov-96 12-Mar-97	28 28	1	ENDOSULFAN SULFATE	0.600		N
09_DBMW45	157	10-Dec-92 10-Dec-92	28	0				
		13-Jul-93	28 28	0	<u> </u>			
09_DGMW75	154	1-Dec-92	28	0				
	 	12-Jul-93	28	1				
10_DGMW77	170	17-Nov-92	28	0				
		13-Aug-93	28	0				
12_DBMW48	135	17-Nov-92	28	0				
		27-Jul-93	28	0				
10.1101414104	145	0.0-4.00						_
12_UGMW31	145	8-Oct-92 7-Jul-93	28 28	0		_	1	
13_DBMW49	182	16-Nov-92	28	0				
		30-Jun-93 30-Jun-93	28 28	0				
		20-2011-92	40	<u> </u>				

Table 7-1: SUMMARY OF METALS ANALYSES MCAS El Toro Groundwater Monitoring Program

					,									r						TT	
	Base			Aluminum	Antimony	Arsenic	Banum	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver	Sodium	Vanadium	Zino
	Screen]						İ	
Station ID	Depth	Sample Date -	Туре	50 0	60	50.0	1000.0		50.0	1000 0	300.0	15.0		50.0	100.0		50 0	50 0			5000
	(FI BGS)			··· · · · · · · · · · · · · · · · · ·																	
1 UGMW37	130	13-Nov-92	F	48 1 B	12.1 U	0.7·U	25.3 B	144,000	37 U	0.9 U	8.5 B	0.6 U	39,400	13 7 B	102.0	2.550 B	9.5 SN	2.1 U	83,100	13 6 B	5.1
		7-Jul-93	F	15.7 B	24.1 B	0.7 B	33.8 8	153,000	2.9 U	0.8 B	23.0 B	0.4 U	39,600	5.5 B	194.0	2.180 B	11.4 BN	1.2 U	91,900	16.6 B	1.9
		12-Feb-96	F	200 0 U	60.0 U	10.0 U	200.0 U	169,000	10.0 U	25 0 U	100.0 U	3.0 U	49,000	15 O U	490.0	2,880 J	10.0	10.0 U	105,000	50 U	20.0
		12-Feb-96	UF	200 0 U	60 O U	10.0 U	200.0 U	165,000	22.0	25.0 U	250.0	3.0 U	48 000	15.0 U	460.0	2,840 J	9.0	10 0 U	103,000	50 U	20.0
		25-Mar-97	F	200.0 U	60.0°U	10.0 U	34.8 B	138,000	6.7 B	5 1 B	74.4 B	1.7 B	35,700	10.6 B	405.0	2.170 B	12.3	10.0 U	84,600	10 6 B	7.
2 DBMW47	156	29-Sep-92	F	31.0 U	16.6 B	1.7.B	32.2 B	187.000	3.7 U	0.9 U	2.3 U	0.6 U	50.500	548	77 U	2,460 B	28.9 S	2.1 U	82,800	17.2 B	2
2_00		13-Jul-93	F	16.0 B	17.8 B	2 0 B	29 7 B	176.000	29 U	08 B	888	0.4 U	49.200	29B	218 B	2.560 B	23.0 BN	1 2 U	83,300	15 9 B	1
		15-Feb-96	F	200.0 U	60.0 U	10.0 U	200 O U	191 000	10 0 U	25.0 U	100.0 U	3.0 U	59.000	15 0 U	40 0 U	3,890 J	13 0	10 0 U	103,000	50 U	20.
		15-Feb-96	UF	200.0 U	60.0 U	10 0 U	200 O U	165,000	12 0	25 0 U	114.0	3.0 U	48,000	15.0 U	40.0 U	3,000 J	110	10.0 U	78,000	50 U	20
		24-Mar-97	F	200 0 U	60 0 U	10.0 U	36 9 B	165,000	4.9 B	3.8 B	100 0 U	50 U	44,500	1.3.8	14.4 B	3,070 B	15 2	10 0 U	80,000	1488	4
24NEW1	245	30-Oct-95	F	120000	6.4 B	26.7	659.0	182.000	166.0	85.2	132000 J	18.5	84.500	1430.0 J	154.0	34.900	20.8	0.8 U	98 500 J	390.0	553
2411001	243	2-Nov-95	F	20.0 U	2.2 U	23 B	30.1 B	105,000	3.7 B	5.8 B	26.6 B	1.5 U	30.000	41.5	2.4 B	3,330 B	18.7	0.8 U	95,100	16.9 B	5
		2-Dec-96	F	14.2 B	60 0 U	2.1 B	42.5 B	120,000	4.3 B	25.0 U	37.0 B	1.6 B	32,100	20.1	253.0	3,140 B	11.7	10.0 U	88,600	16.6 B	6
		24-Mar-97	F	200.0 U	60.0 U	10.0 U	37.5 B	119,000	4.1 B	7.5 B	21.6 B	50 U	32,300	7.6 B	373.0	3,710 B	20.3	10.0 U	86.600	13.5 B	11
		24-11101-07		20000	00.0	.0.0	01.0.9	. 10.000							AND COLUMN						
24NEW4	148	26-Oct-95	F	11.8:B	8.1.8	2.1 U	37.5 B	129,000	5.1 B	5.5.B	51.0 J	1.5 U	35,700	23.7 J	88.4	3,060 B	10.7	0.8 U	93,200 J	11.4.B	3
		2-Dec-96	F	25.3 B	60.0 U	10.0 U	49.7 B	130,000	7.5 B	25.0 U	63.8 B	1.7 B	35,100	14.3 B	65.1	2,920 B	6.2	10 0 U	87,300	13.6 B	20
		21-Mar-97	Ė	54.3 B	60.0 U	10.0 U	47.0 B	130,000	12.7	2 4 B	142.0	5.0 U	33,400	23.0	105,0	3,050 B	11.1	10.0 U	80,900	12.4 B	٤
		20-Nov-97	F	11.9 B	1.1 U	1.0 U	51.6 B	135,000	8.8 B	5.5 B	46.7 B	0.7 U	37,200	5.7 B	38.7 B	3,040 B	13.8	0.4 B	91,600	14.8 B	11
24NEW5	250	21-Nov-95	F	44.2 B	2.2 U	2.1 U	25.5 B	97,800	3.5 B	5.0 B	28.6 J	1.5 U	28,400	21.2	4.2 B	3,160 B	15.2	0.8 U	91.500 J	17.1 B	e
		2-Dec-96	F	21.7 B	60.0 U	27 B	36 1 B	96,000	3.4 B	25.0 U	100.0 U	1.1,B	26,400	83 B	114.0	3,310 B	6.5	10 0 U	80,400	178B	3
		24-Mar-97	F	200.0 U	60.0 U	10.0 U	34.6 B	102,000	3.4 B	2.4 8	100.0 U	5.0 U	28,200	4.3 B	110.0	4,090 B	17 0	10.0 U	81,100	17.9 B	. 2
24NEW6	185	25-Oct-95	F	9.9 U	2.2 U	2.1 U	54.5 B	84.200	17.6	278	21.9 J	1.5 U	24,500	38.3 J	16.1 8	3.240 B	5.3	0.8 U	84,700 J	23.7 B	14
		2-Dec-96	F	34.5 B	60.0 U	2.4 B	55.7 B	85,600	14 1	25.0 U	100.0 U	1.7.B	25,000	6.8 B	81.6	3,070 B	5.0 U	100 U	82,500	21.2 B	6
		19-Mar-97	F	200.0 U	60.0 U	10 0 U	518B	91,300	14.0	4.1.B	11 8 B	5 0 U	25,000	6.8 B	224.0	3,550 B	77	10.0 U	78,300	18.5 B	(
24NEW7	158	31-Oct-95	F	20 7 U	2.2 U	2.5 B	19.4 B	204 000	4.5 B	5 7 B	250.0	1.5 U	58.900	112.0	173.0	3,010 B	47.9	0.8 U	116,000	10.1 B	
2 //12111	,,,,	2-Dec-96	F	13.1.B	60 O U	10.0 U	26.4 B	221.000	938	25 O U	382.0	1.9 B	63,400	70.8	290.0	2.820 B	40.6	10.0 U	130.000	10.3 B	
		12-Mar-97	F	200 0 U	60 0 U	10.0 U	24 6 B	225,000	8.7 B	6.2 B	211.0	5.0 U	63 100	42.8	260.0	3,030 B	49.1	10.0 U	125,000	9.6 8	12
		12-14101-37	'	200.0.0	1 5500	10.00	1 2700	225.000] ","	0.2.0	1	1 5 5 5	1 55,100			5,550		1	1,000	100	

Table 8-1: SUMMARY OF GENERAL CHEMISTRY ANALYSES MCAS El Toro Groundwater Monitoring Program

				GENERAL CHI	EMISTRY PARA All Results in	METERS AND Milligrams per		STANDARDS	
	Base Screen		TDS	Chloride	Sulfate	Nitrate/ Nitrite-N	Alkalinity (as CaCO ₃)	Bicarbonate (as CaCO ₃)	Carbonate (as CaCO
Station ID	Depth (Ft BGS)	Sample Date	500	250.0	250.0	10.0			
22_D8MW47	156	29-Sep-92	1,130	228.0	263.0	18.7	190	190	
22_00////	150	13-Jul-93	1,160	225.0	227.0	17.3	180	180	
1		15-Feb-96	1,180	231.0	169.0	17.0	191	233	2 U
		2-Dec-96	1,010	219.0	160:0	16.5	192	192	
						A 100 CO. CO. CO. CO. CO. CO. CO. CO. CO. CO.		· (2 U
		24-Mar-97	987	220.0	157.0	16.4	187	187	2 U
		8-Jul-97	1,070	250.0	156.0	15.3	192	192	2 U
		8-Jul-97	1,060	242.0	146.0	14.7	201	201	2 U
		23-Oct-97	1,070	236.0	157.0	12.2	189	189	2 U
24NEW1	245	30-Oct-95	807			3.7	180	180	
		2-Dec-96	865	150.0	186.0	9.2	170	170	2 ປ
		24-Mar-97	869	147.0	173.0	9.6	170	170	2 U
		10-Jul-97	1,010	189.0	206.0	10.0 U	174	174	2 t
		23-Oct-97	879	170.0	180.0	8.3	164	164	
		23-061-97	. 0/9	170.0	180.0	0.3	104	104	- 2 U
24NEW4	148	26-Oct-95				13.2	192	192	
		3-Dec-96	939	252.0	179.0	13.5	170	170	2 บ
		21-Mar-97	857	210.0	97.2	12.1	197	197	2 U
		8-Jul-97	954	248.0	100.0	11.7	194	194	2 L
		8-Jul-97	869	254.0	102.0	12.0	196	196	2 U
		23-Oct-97	961	240.0	103.0	10.2	191	191	2 U
		23-Oct-97	1,070	242.0	103.0	10.0	189	189	2 0
24NEW5	250	21-Nov-95				5.6	172	172	-
24112110		2-Dec-96	745	148.0	128.0	7.1	168	168	2 U
#		24-Mar-97	699	138.0	124.0	7.4	163	163	2 1
			19971			1 :		1	
		8-Jul-97	689	148.0	123.0	6.7	170	170	2 (
		20-Oct-97	744	142.0	123.0	6.0	166	166	2 (
24NEW6	185	25-Oct-95			-	× 13.6	172	172	
		2-Dec-96	673	120.0	95.8	13.6	168	168	2 L
		19-Mar-97	647	148.0	81.7	12.8	172	172	2 ι
		10-Jul-97	677	140.0	131.0	12.2	177	177	2 (
		27-Oct-97	720	130.0	98.8	9.7	171	171	2 (
24NEW7	158	31-Oct-95				19.7	188	188	
**************************************		3-Dec-96	1,590	300.0	510.0	22.0	179	179	2 ί
		19-Mar-97	1,590	271.0	445.0	18.0	178	178	2 (
			•	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1	
		2-Jul-97	1,540	316.0	533,0	20.3	185	185	2 U
		2-Jul-97	1,530	327.0	555.0	22.6	183	183	2 (
		20-Oct-97	1,590	301.0	464.0	16.6	181	181	2 (
24NEW8	162	1-Nov-95	1,260			21.1	176	176	
		3-Dec-96	1,160	278.0	290.0	16.5	164	164	2 (
		19-Mar-97	1,140	243.0	242.0	16.9	157	157	2 L
		2-Jul-97	1,160	320.0	320.0	19.7	159	159	2 (
		20-Oct-97	1,220	293.0	282.0	13.9	154	154	2 (
		20-UCI-91	1,440	47J.U	LES LULU	10.0	154	104	

EXPLANATION

- 1) The 1996 and 1997 sample results listed in this table are as reported in the APCL laboratory analytical reports, (Appendix E, Groundwater Monitoring Reports).
- 2) Regulatory Standards for Parameters listed:

Nitrate/Nitrite-N - 10 mg/L Federal maximum contaminant level (MCL)

TDS (Total Dissolved Solids) - 500 mg/L Federal Secondary MCL

Chloride - 250 mg/L Federal Secondary MCL

Sulfate - 250 mg/L Federal Secondary MCL

- = Result exceeds regulatory standard
- 4) Qualifying Flags: U = Concentration is below instrument detection limit (not detected)